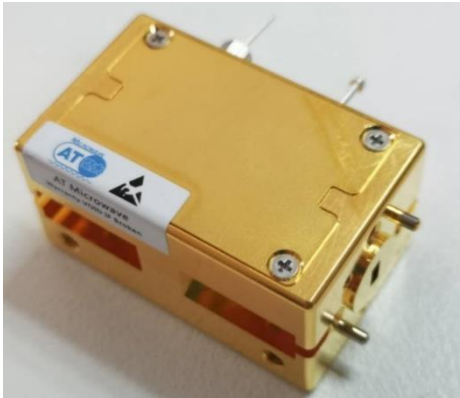


### D Band Power Amplifier, 30dB Gain, Pout=+13dBm, WR-06

2022-6-1



#### Product Overview

AT-PA-110150-3013 is a high gain D Band power amplifier operating in the 110-150 GHz frequency range. The PA is packaged in a waveguide module using industry standard WR-06.

The power amplifier is with very low NF=6dB, and it can be used as low noise amplifier as well.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

#### Advantages

- ✓ Frequency: 110-150GHz
- ✓ Gain: 30dB
- ✓ Pout: +13dBm
- ✓ Single Supply

#### Application

- ✓ D Band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

#### Key Features

Parameter	Min	Typical	Max
Frequency		110-150GHz	
Gain	28dB	30dB	
Psat	+10dBm	+13dBm	
Power Supply		+5V	
Current		0.25A	
NF		6dB	9dB
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	





# AT-PA-110150-3013

110-150GHz Power Amplifier

## Mechanical Information

Item	Description
Input Port	WR-06
Output Port	WR-06
Case Material	Copper
Finish	Gold Plated
Weight	150g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

### Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

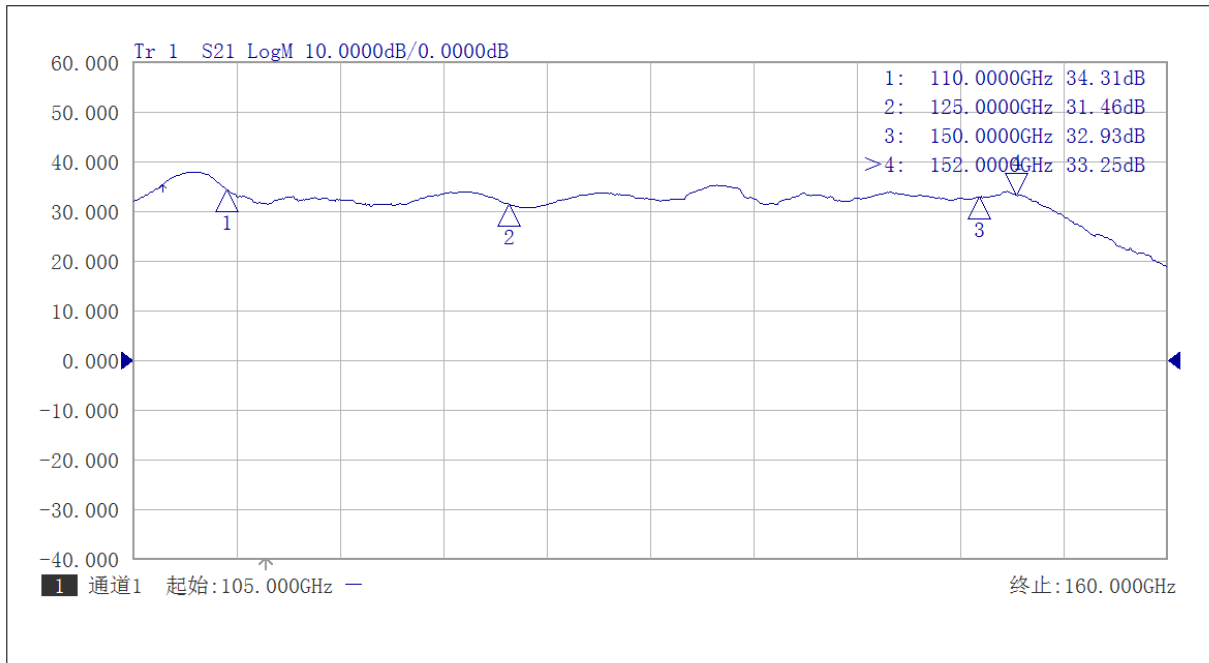
## Part Number Selection Guide

Item	Description
PN	Standard Module with DC Power Supply
<b>PN-LCBT</b>	<b>L</b> ow Cost, <b>C</b> ompact <b>B</b> ench- <b>T</b> op, +220V Supply with AC/DC Adapter

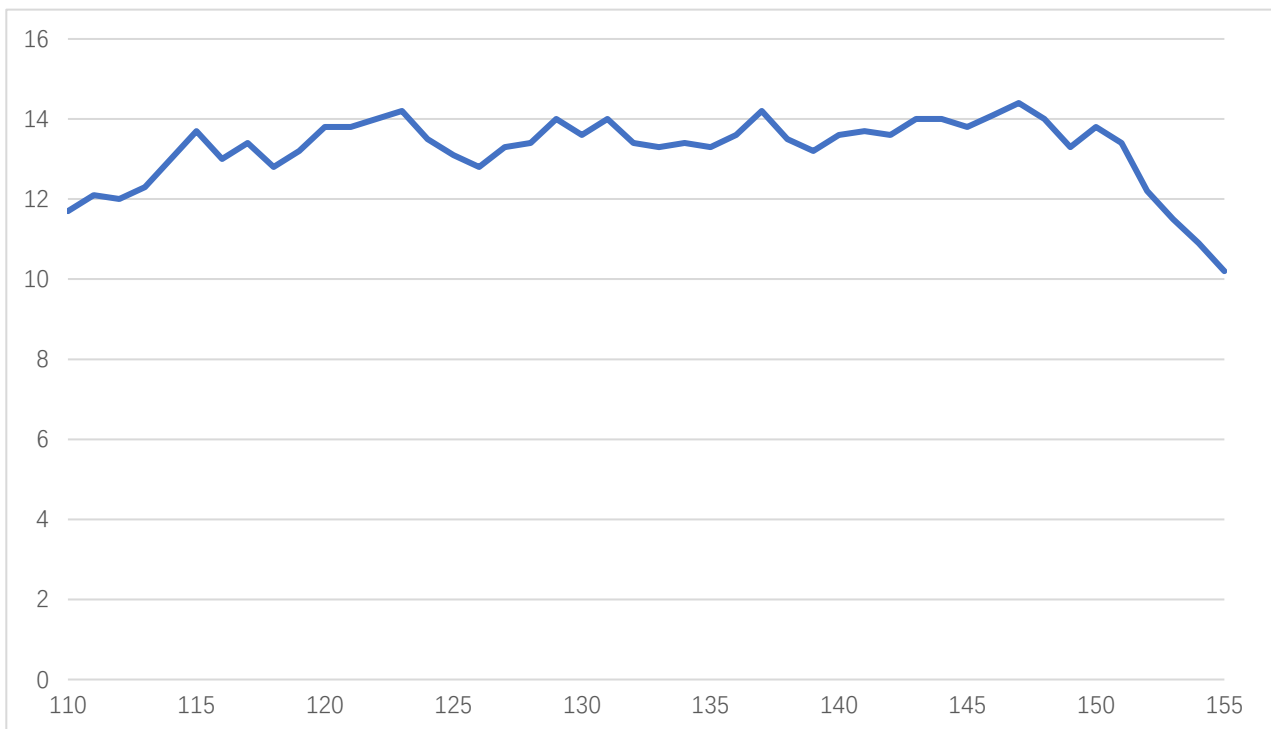


### Test Data (25C)

Please note that test curves will vary slightly from unit to unit.

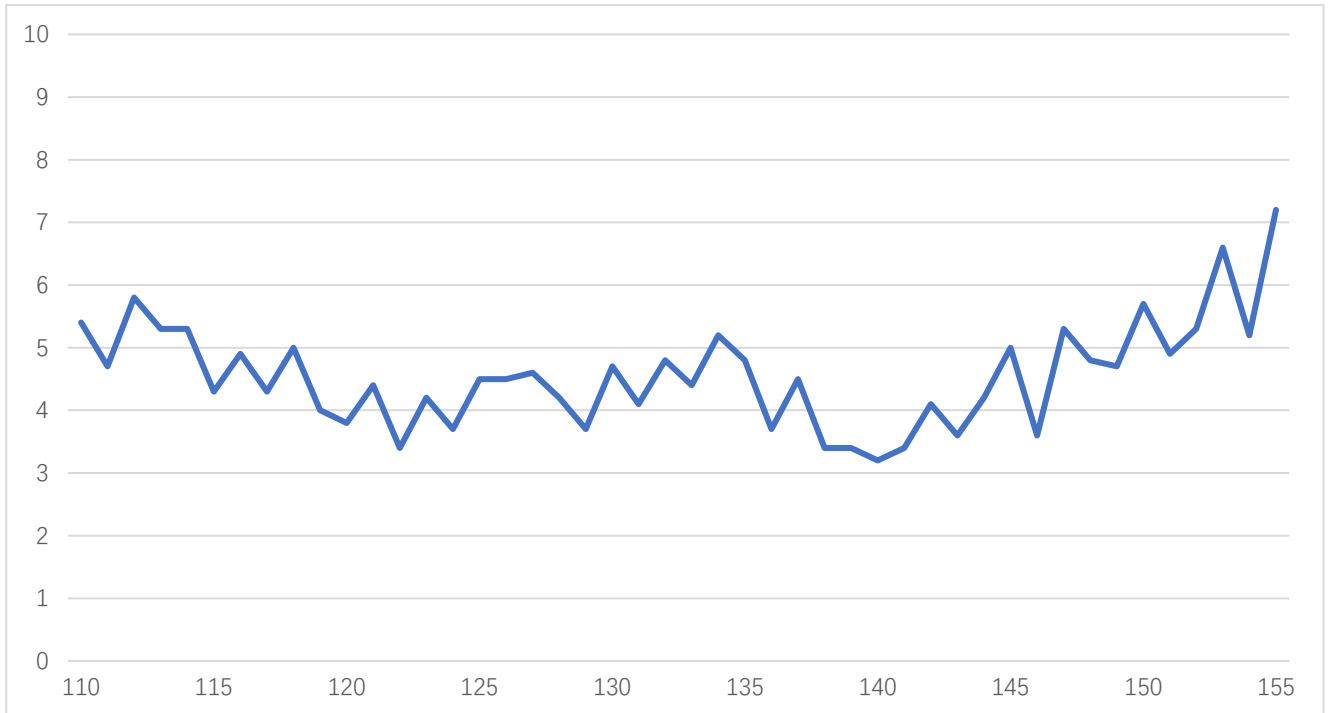


Gain vs Frequency



Pout vs Frequency, Pin=-5dBm





NF vs Frequency

### Dimension: ( unit mm)

